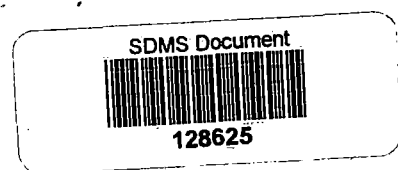


**\*\*\*\* CONFIDENTIAL \*\*\*\***  
**\*\*\*\*PRE-DECISIONAL DOCUMENT \*\*\*\***  
**\*\*\*\* SUMMARY SCORESHEET \*\*\*\***  
**\*\*\*\* FOR COMPUTING PROJECTED HRS SCORE \*\*\*\***



**\*\*\*\* Do Not Cite or Quote \*\*\*\***

Site Name: Norda

Region: 2

City, County, State: East Hanover, Morris  
NJ

Evaluator: Ray Pogwist

EPA ID#: NJD001307115

Date: 3/17/2010

Lat/Long: 40.8099872/74.381964

T/R/S:

Congressional District:

This Scoresheet is for: Other

Scenario Name: Reassessment

Description:

	S pathway	S <sup>2</sup> pathway
Ground Water Migration Pathway Score (S <sub>gw</sub> )	0	0
Surface Water Migration Pathway Score (S <sub>sw</sub> )	0	0
Soil Exposure Pathway Score (S <sub>s</sub> )	2.04	4.1616
Air Migration Score (S <sub>a</sub> )	0	0
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		4.1616
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		1.0404
$/(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		1.02

0 Pathways not assigned a score (explain):

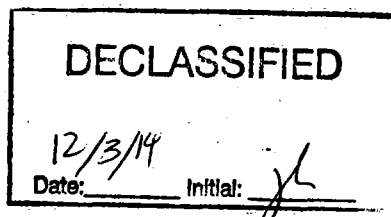


TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
<b>Aquifer Evaluated:</b>		
<b>Likelihood of Release to an Aquifer:</b>		
1. Observed Release	550	0
2. Potential to Release:		
2a. Containment	10	
2b. Net Precipitation	10	
2c. Depth to Aquifer	5	
2d. Travel Time	35	
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	
3. Likelihood of Release (higher of lines 1 and 2e)	550	0
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	
6. Waste Characteristics	100	
<b>Targets:</b>		
7. Nearest Well	(b)	
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(b)	
8d. Population (lines 8a + 8b + 8c)	(b)	
9. Resources	5	
10. Wellhead Protection Area	20	
11. Targets (lines 7 + 8d + 9 + 10)	(b)	
<b>Ground Water Migration Score for an Aquifer:</b>		
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000] <sup>c</sup>	100	0
<b>Ground Water Migration Pathway Score:</b>		
13. Pathway Score ( $S_{gw}$ ), (highest value from line 12 for all aquifers evaluated) <sup>c</sup>	100	0

<sup>a</sup> Maximum value applies to waste characteristics category<sup>b</sup> Maximum value not applicable<sup>c</sup> Do not round to nearest integer

TABLE 4-1 --SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Watershed Evaluated:		
<b>Drinking Water Threat</b>		
<b>Likelihood of Release:</b>		
1. Observed Release	550	0
2. Potential to Release by Overland Flow:		
2a. Containment	10	
2b. Runoff	10	
2c. Distance to Surface Water	5	
2d. Potential to Release by Overland Flow [(lines 2a(2b + 2c)]	35	
3. Potential to Release by Flood:		
3a. Containment (Flood)	10	
3b. Flood Frequency	50	
3c. Potential to Release by Flood (lines 3a x 3b)	500	
4. Potential to Release (lines 2d + 3c, subject to a maximum of 500)	500	
5. Likelihood of Release (higher of lines 1 and 4)	550	0
<b>Waste Characteristics:</b>		
6. Toxicity/Persistence	(a)	
7. Hazardous Waste Quantity	(a)	
8. Waste Characteristics	100	0
<b>Targets:</b>		
9. Nearest Intake	50	
10. Population:		
10a. Level I Concentrations	(b)	
10b. Level II Concentrations	(b)	
10c. Potential Contamination	(b)	
10d. Population (lines 10a + 10b + 10c)	(b)	
11. Resources	5	
12. Targets (lines 9 + 10d + 11)	(b)	
<b>Drinking Water Threat Score:</b>		
13. Drinking Water Threat Score [(lines 5x8x12)/82,500, subject to a max of 100]	100	0
<b>Human Food Chain Threat</b>		
<b>Likelihood of Release:</b>		
14. Likelihood of Release (same value as line 5)	550	0
<b>Waste Characteristics:</b>		
15. Toxicity/Persistence/Bioaccumulation	(a)	
16. Hazardous Waste Quantity	(a)	0
17. Waste Characteristics	1000	0
<b>Targets:</b>		
18. Food Chain Individual	50	
19. Population		
19a. Level I Concentration	(b)	
19b. Level II Concentration	(b)	
19c. Potential Human Food Chain Contamination	(b)	
19d. Population (lines 19a + 19b + 19c)	(b)	
20. Targets (lines 18 + 19d)	(b)	
<b>Human Food Chain Threat Score:</b>		
21. Human Food Chain Threat Score [(lines 14x17x20)/82500, subject to max of 100]	100	0
<b>Environmental Threat</b>		
<b>Likelihood of Release:</b>		
22. Likelihood of Release (same value as line 5)	550	0
<b>Waste Characteristics:</b>		
23. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	
24. Hazardous Waste Quantity	(a)	0
25. Waste Characteristics	1000	0

**Targets:**

## 26. Sensitive Environments

26a. Level I Concentrations

(b)

26b. Level II Concentrations

(b)

26c. Potential Contamination

(b)

26d. Sensitive Environments (lines 26a + 26b + 26c)

(b)

27. Targets (value from line 26d)

(b)

**Environmental Threat Score:**

28. Environmental Threat Score [(lines 22x25x27)/82,500 subject to a max of 60]

60

0

**Surface Water Overland/Flood Migration Component Score for a Watershed**29. Watershed Score<sup>c</sup> (lines 13+21+28, subject to a max of 100)

100

0

**Surface Water Overland/Flood Migration Component Score**30. Component Score ( $S_{sw}$ )<sup>c</sup> (highest score from line 29 for all watersheds evaluated)

100

0

<sup>a</sup> Maximum value applies to waste characteristics category<sup>b</sup> Maximum value not applicable<sup>c</sup> Do not round to nearest integer

TABLE 4-25 --GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
<b>Aquifer Evaluated:</b>		
<b>Drinking Water Threat</b>		
<b>Likelihood of Release to an Aquifer:</b>		
1. Observed Release	550	0
2. Potential to Release:		
2a. Containment	10	
2b. Net Precipitation	10	
2c. Depth to Aquifer	5	
2d. Travel Time	35	
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	
3. Likelihood of Release (higher of lines 1 and 2e)	550	0
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	
6. Waste Characteristics	100	0
<b>Targets:</b>		
7. Nearest Well	(b)	
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(b)	
8d. Population (lines 8a + 8b + 8c)	(b)	
9. Resources	5	
10. Targets (lines 7 + 8d + 9)	(b)	
<b>Drinking Water Threat Score:</b>		
11. Drinking Water Threat Score [(lines 3 x 6 x 10)/82,500, subject to max of 100]	100	0
<b>Human Food Chain Threat</b>		
<b>Likelihood of Release:</b>		
12. Likelihood of Release (same value as line 3)	550	0
<b>Waste Characteristics:</b>		
13. Toxicity/Mobility/Persistence/Bioaccumulation	(a)	
14. Hazardous Waste Quantity	(a)	0
15. Waste Characteristics	1000	0
<b>Targets:</b>		
16. Food Chain Individual	50	
17. Population		
17a. Level I Concentration	(b)	
17b. Level II Concentration	(b)	
17c. Potential Human Food Chain Contamination	(b)	
17d. Population (lines 17a + 17b + 17c)	(b)	
18. Targets (lines 16 + 17d)	(b)	
<b>Human Food Chain Threat Score:</b>		
19. Human Food Chain Threat Score [(lines 12x15x18)/82,500, subject to max of 100]	100	0
<b>Environmental Threat</b>		
<b>Likelihood of Release:</b>		
20. Likelihood of Release (same value as line 3)	550	0
<b>Waste Characteristics:</b>		
21. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	
22. Hazardous Waste Quantity	(a)	0
23. Waste Characteristics	1000	0
<b>Targets:</b>		
24. Sensitive Environments		
24a. Level I Concentrations	(b)	
24b. Level II Concentrations	(b)	
24c. Potential Contamination	(b)	

24d. Sensitive Environments (lines 24a + 24b + 24c)	(b)	
25. Targets (value from line 24d)	(b)	
<b>Environmental Threat Score:</b>		
26. Environmental Threat Score [(lines 20x23x25)/82,500 subject to a max of 60]	60	0
<b>Ground Water to Surface Water Migration Component Score for a Watershed</b>		
27. Watershed Score <sup>c</sup> (lines 11 + 19 + 28, subject to a max of 100)	100	0
28. Component Score (S <sub>gs</sub> ) <sup>c</sup> (highest score from line 27 for all watersheds evaluated, subject to a max of 100)	100	0

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<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
<b>Likelihood of Exposure:</b>		
1. Likelihood of Exposure	550	550
<b>Waste Characteristics:</b>		
2. Toxicity	(a)	10000
3. Hazardous Waste Quantity	(a)	1
4. Waste Characteristics	100	10
<b>Targets:</b>		
5. Resident Individual	50	0
6. Resident Population:		
6a. Level I Concentrations	(b)	0
6b. Level II Concentrations	(b)	0
6c. Population (lines 6a + 6b)	(b)	0
7. Workers	15	5
8. Resources	5	0
9. Terrestrial Sensitive Environments	(c)	0
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)	5
<b>Resident Population Threat Score</b>		
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)	27500
<b>Nearby Population Threat</b>		
<b>Likelihood of Exposure:</b>		
12. Attractiveness/Accessibility	100	10
13. Area of Contamination	100	5
14. Likelihood of Exposure	500	5
<b>Waste Characteristics:</b>		
15. Toxicity	(a)	10000
16. Hazardous Waste Quantity	(a)	1
17. Waste Characteristics	100	10
<b>Targets:</b>		
18. Nearby Individual	1	0
19. Population Within 1 Mile	(b)	2817
20. Targets (lines 18 + 19)	(b)	2817
<b>Nearby Population Threat Score</b>		
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)	140850
<b>Soil Exposure Pathway Score:</b>		
22. Pathway Score <sup>d</sup> (S <sub>s</sub> ), [(lines 11+21)/82,500, subject to max of 100]	100	2.04

<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60

<sup>d</sup> Do not round to nearest integer

TABLE 6-1 --AIR MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
<b>Likelihood of Release:</b>		
1. Observed Release	550	0
2. Potential to Release:		
2a. Gas Potential to Release	500	
2b. Particulate Potential to Release	500	
2c. Potential to Release (higher of lines 2a and 2b)	500	
3. Likelihood of Release (higher of lines 1 and 2c)	550	0
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	
6. Waste Characteristics	100	
<b>Targets:</b>		
7. Nearest Individual	50	
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(c)	
8d. Population (lines 8a + 8b + 8c)	(b)	
9. Resources	5	
10. Sensitive Environments:		
10a. Actual Contamination	(c)	
10b. Potential Contamination	(c)	
10c. Sensitive Environments (lines 10a + 10b)	(c)	
11. Targets (lines 7 + 8d + 9 + 10c)	(b)	
<b>Air Migration Pathway Score:</b>		
12. Pathway Score ( $S_a$ ) $[(\text{lines } 3 \times 6 \times 11)/82,500]^d$	100	0

<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.

<sup>d</sup> Do not round to nearest integer